



ARCHITECTURAL AND ENGINEERING SPECIFICATION

PRODUCT: UMX-TPS-TX130

FUNCTIONAL OVERVIEW

UMX-TPS-TX130 is a universal HDBaseT™ (TPS) transmitter designed to extend digital and analog video (e.g., VGA, HDMI, DP) plus audio over a single CATx link, with support for HDCP-encrypted content. Analog audio/video signals are converted to digital format; audio can be embedded/de-embedded, enabling multiple A/V combinations. The unit provides advanced EDID management and offers bi-directional, transparent control extension (IR, RS-232, Ethernet), including command injection from the LAN interface. It supports remote PoE powering or local power supply.

VIDEO INPUT AND OUTPUT

- Video inputs (front panel):
 - VGA input (DE-15F / D-SUB) – supported video signal: Analog RGB and YPbPr video
 - HDMI input (19-pole HDMI Type A) – A/V standard: DVI 1.0, HDMI 1.4
 - DisplayPort input (20-pole DisplayPort) – A/V standard: DP 1.1a
- Video output (rear panel):
 - TPS OUT (PoE) – locking RJ45 connector for HDBaseT™ signal transmission
- HDCP compliance: HDCP 1.4
- Color space: RGB, YCbCr
- Video delay: 0 frame
- Supported resolutions at 8 bits/color: up to 4096x2160@30Hz (4:4:4) or 4096x2160@60Hz (4:2:0); up to 3840x2160@30Hz (4:4:4) or 3840x2160@60Hz (4:2:0); 1920x1080@60Hz (4:4:4) up to 12 bits/color
- EDID: advanced EDID management; EDID memory: 120 factory presets, 15 programmable
- Reclocking: Pixel Accurate Reclocking
- 3D support: yes

AUDIO CAPABILITIES

- Analog audio input (front panel): “Audio1 input” – 3.5 mm jack connector for asymmetric analog audio input signal
- Analog audio input (3.5 mm TRS): audio format 2-ch PCM; sampling frequency 48 kHz
- Supported audio types (system capability): analog stereo audio from local inputs or embedded 7.1 HBR audio; audio can be de-embedded from the video
- Breakaway audio/video switching supported (embed/de-embed workflows)

POWERING

- Local power: 12V DC input for local powering
- Remote power: Power over Ethernet (PoE) via TPS output (IEEE 802.3af)
- Power supply option: Power adaptor / PoE
- Power consumption (min / max): 4.5 W / 6.5 W

CONTROL

- Ethernet control: locking RJ-45 connector for configuring via Lightware Device Controller (LDC), firmware updating via Lightware Device Updater (LDU), and third-party control
- Ethernet interface characteristics: 10/100Base-T, full duplex with autodetect
- RS-232: 3-pole Phoenix connector; baud rates between 4800 and 115200; 8 or 9 data bits
- IR: bi-directional and transparent IR transmission; IR and RS-232 support command injection (send control commands directly from LAN)
- GPIO: 8-pole Phoenix; number of configurable pins: 7; port direction: input or output
- CEC: supports transmitting standard CEC commands to remote-control source or sink devices

GENERAL

- Dimensions: 221W x 100.4D x 26H mm (8.7W x 3.95D x 1.02H inch)
- Weight: 629 g
- Mounting options: standalone; rack shelf mounting; under-desk mounting; fixing screws for mounting (4 pcs.)
- LVD compatibility: Electrical safety standard EN 62368-1:2020 (CE, UKCA compliance listed)

- Supplied accessories
 - 12V DC power adaptor with interchangeable plugs
 - Phoenix Combicon 3-pole connector
 - Phoenix Combicon 8-pole connector
 - Safety and Warranty Info
 - Quick Start Guide
- Warranty period: 3 years
- Cooling: Passive
- Packaging: product has a full paper / green packaging

DOCUMENT REVISION HISTORY

Document	Release Date	Changes	Checked by
v1	2026-08-17	Initial version	Tamas Forgacs